

HYPERTHERM

# POWERMAX 65/85/105 SYNC™

INVERTER BASED AIR PLASMA CUTTING MACHINES



## Key Attributes

The next generation of Powermax 65/85/105 A systems, the Powermax SYNC is the result of several years of design and manufacturing innovation with the main objective of solving common customer pain points associated with plasma system operation.

### SALIENT FEATURES:

- Easy to identify single-piece cartridge consumables are color coded by process to eliminate parts mix-up and simplify consumable inventory management.
- New SmartSYNC™ torches with the Hypertherm cartridge automatically set the correct amperage and operating mode, eliminating setup errors.
- End of life detection lets the operator know when it's time to change the cartridge.
- Less operator fatigue when using handheld torches with new flexible lead. The lead has the same robustness of our previous lead jacket material and will also be used on robotic torches. Small size and light weight provides exceptional portability for a 5/8" rated cutting system.



## MAXIMUM PRODUCTIVITY

- Tackle a wide range of jobs with easily interchangeable torch styles and application-specific Hypertherm cartridge consumables for various types of cutting and gouging.
- Reduce training time with simplified set up and consistent performance.
- Time-saving hand torch controls allow the operator to adjust the amperage on the fly and change consumables and applications without returning to the power supply. Finish jobs faster with cut speeds one and a half times greater than oxyfuel on 1/4" mild steel.

## TECHNICAL SPECIFICATIONS

MODELS	POWERMAX 65 SYNC™	POWERMAX 85 SYNC™	POWERMAX 105 SYNC™	UNIT
INPUT VOLTAGE SINGLE PHASE (± 10%)	200–480, 1, 50–60	200–480, 1, 50–60	NA	VOLTS AC, NO., HZ
INPUT VOLTAGE THREE PHASE (± 10%)	200 - 600, 3, 50–60	200 - 600, 3, 50–60	200 - 600, 3, 50–60	VOLTS AC, NO., HZ
4.196 mm	9 KW	12.2 KW	16.8 KW	KW
INPUT CURRENT	200/208/240/480 V, 1-PH 52/50/44/22 A @ 9 KW 200/208/240/480/600 V, 3-PH 32/31/27/13/13 A @ 9 KW	200/208/240/480 V, 1-PH 70/68/58/29 A @ 12.2 KW 200/208/240/480/600 V, 3-PH 42/40/35/18/17 A @ 12.2 KW	200/208/240/480/600 V, 3-PH 58/56/49/25/22 A @ 16.8 KW	AMPS AC
OUTPUT CURRENT	20–65 A	25–85 A	30–105 A	AMPS, DC
RATED OUTPUT VOLTAGE	139 VDC	143 VDC	160 VDC	VOLTS, DC
DUTY CYCLE @ 104° F	50% @ 65 A, 230–600 V, 1/3-PH 40% @ 65 A, 200–208 V, 1/3-PH 100% @ 46 A, 230–600 V, 1/3-PH	60% @ 85 A, 230–600 V, 3-PH 60% @ 85 A, 480 V, 1-PH 50% @ 85 A 240 V, 1-PH 50% @ 85 A, 200–208 V, 3-PH 40% @ 85 A, 200–208 V, 1-PH 100% @ 66 A, 230–600 V, 1/3-PH	70% @ 105 A, 240 V, 3-PH 80% @ 105 A, 480–600 V, 3-PH 100% @ 94 A, 480–600 V, 3-PH 100% @ 88 A, 240 V, 3-PH	AMPS, DC
OPEN CIRCUIT VOLTAGE (OCV)	295 VDC	305 VDC	300 VDC	-
DIMENSIONS WITH HANDLES	M D19" D; 9.2" W; 17" H	19" D; 9.2" W; 17" H	23.3" D; 10.8" W; 20.0" H	INCHES
WEIGHT W/25' TORCH	61 LBS.	67 LBS.	95 LBS.	POUNDS (LB)

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MODELS	POWERMAX 65 SYNC™	POWERMAX 85 SYNC™	POWERMAX 105 SYNC™	UNIT
GAS SUPPLY	CLEAN, DRY, OIL-FREE AIR OR NITROGEN	CLEAN, DRY, OIL-FREE AIR OR NITROGEN	CLEAN, DRY, OIL-FREE AIR OR NITROGEN	
OPTIMUM INLET GAS PRESSURE	110-120 PSI	110-120 PSI	110-120 PSI	PSI
MINIMUM INLET GAS PRESSURE	75 PSI	75 PSI	80 PSI	PSI
RECOMMENDED INLET GAS FLOW RATE	CUTTING: 450 SCFH, 7.5 SCFM @ 85 PSI GOUGING: 450 SCFH, 7.5 SCFM @ 70 PSI	CUTTING: 450 SCFH, 7.5 SCFM @ 85 PSI GOUGING: 450 SCFH, 7.5 SCFM @ 70 PSI	CUTTING: 550 SCFH, 9.2 SCFM @ 90 PSI GOUGING: 550 SCFH, 9.2 SCFM @ 70 PSI	CFH / PSI
INPUT POWER CABLE LENGTH	10'	10'	10'	FEET
ENGINE DRIVE REQUIREMENT	15 KW FOR FULL 65 A OUTPUT	20 KW FOR FULL 85 A OUTPUT	30 KW FOR FULL 105 A OUTPUT	
CERTIFICATIONS	CSA- CERTIFIED FOR USE IN THE AMERICAS AND ASIA			